Parker Duofold

SERVICE MANUAL

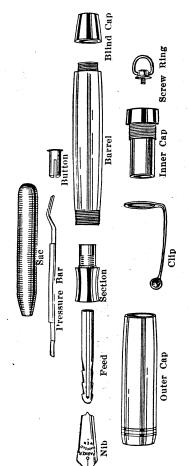
Parker Duofold

SERVICE MANUAL

A COMPLETE COURSE
IN SERVICING
PARKER DUOFOLD
FOUNTAIN PENS



THE PARKER PEN COMPANY JANESVILLE, WIS., U.S.A.



FOUNTAIN PEN AND THE MATERIALS THEY ARE MADE OF THE COMPONENT PARTS OF A PARKER DUOFOLD

Metal; Spring Bar: Phosphor bronze, Small Plate: Nickel Alloy Soft Rubber Pressure Bar Sac

Brass, gold plated Button

14 Karat gold, tip of Iridium Gold nib

Hard Rubber Hard Rubber Section Feed

Permanite (a very highly refined Barrel

pyroxylin product)

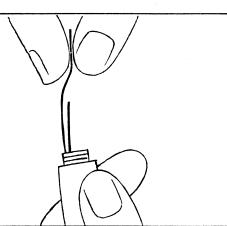
Hard Rubber Blind Cap

Permanite and 2 rolled gold bands Outer Cap

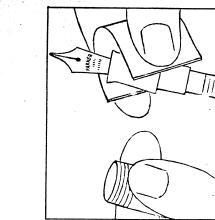
Rolled Gold Clip or Screw Ring Hard Rubber Inner Cap

TO TAKE PEN APART

Remove the blind cap and pull out the button by using a metal plate in which a small indention has been cut or filed.



Straight shaped pens have a screw-section; streamlined pens are fitted with a slip-section. Before removing section from barrel, tap the barrel at the threads with a blunt tool or hit the barrel against the edge of a table; this will loosen the shellac which was used in fitrubber (cut from a wide rubberband) grip the section tightly. If it is a screw section, unscrew it; if it is a slip section, pull it out with a rocking motion. Then with a piece of ting the section.



Now remove pressure bar, pulling it out carefully.

This operation varies according to the

type of feed used in the fountain pen. Feed A has a curve at the bottom and cannot be pulled out from front of sec-

Feed B Notch + reed A

pulled out from front. The latter can be

recognized by a small notch on the under

side of the feed.

tion. Feed B has no curve and can be

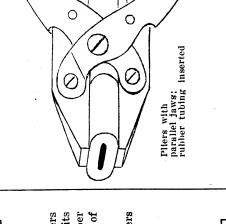
move it back and forth until it becomes

oose in section and can be pulled out.

If pen has feed A, grasp the gold nib firmly between thumb and finger and

> If pen has feed B, use a pair of pliers with a piece of rubber tubing in its tubing as far as possible, close jaws of mouth. Insert nib and feed into rubber pliers and extract nib and feed.

Be sure to use rubber tubing with pliers or you will spoil the gold nib.



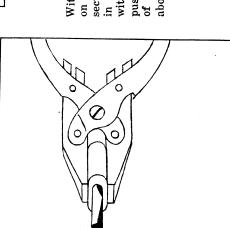
pliers which open in V-shape, because Only pliers, the jaws of which are paralel when open, can be used for this operation. Do not attempt to do this with you will ruin feed and gold nib.

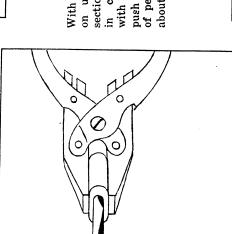
above, pass section over a small flame a few times. This softens the section and makes removal of nib easier. After a section has been heated it must be rolled between fingers until it cools, so If a gold nib is fitted too tightly, so that it cannot be extracted as directed that it will not lose its shape.

Do not use pliers with V-shape jaws

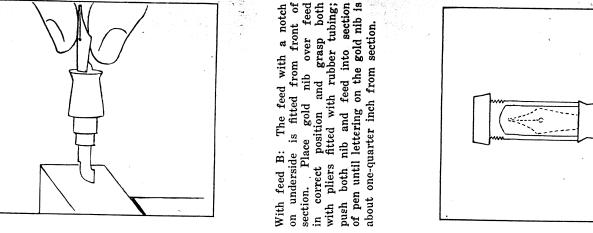
TO FIT A GOLD NIB

With feed A: Insert the gold nib into the front of the section and the feed into the rear of the section; push both in as far as you can with your fingers. Then, hold the nib firmly between fingers, place curve of feed against edge of table and press with force until nib and feed reach correct position.



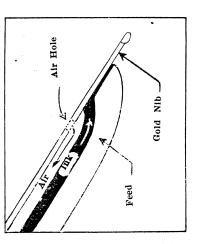


If the nib touches the upper wall of the inner cap, it must be fitted deeper, or After nib is fitted it must be tested with the inner cap to see if it is inserted deep enough (see illustration). it will be ruined when the cap is screwed on.



SERVICE MANUAL

The channel of the feed has two indentations, one on each side, through which ink is attracted to the writing point by capillary action.



The smooth flow will take place only when the gold nib fits closely against feed, as in A. Ink is under control because it is confined to ink channel.

When a space is left between nib and feed, ink will fill the space and destroy the action of the channel, with the result that the volume of ink and its rate of flow is left out of control. See B.

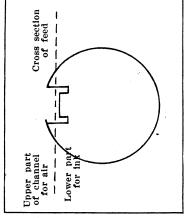
TO ADJUST THE FEED

Make sure the feed is adjusted correctly.

When feed is fitted too low, ink does not reach the nib evenly and pen will not write properly.

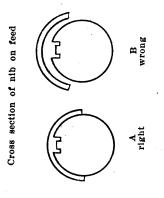
When feed is adjusted too high, ink will flow too freely and blot.

the rubber.



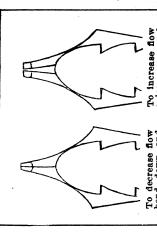
When writing, ink travels down the indentations and lower part of channel to point of nib. Air in turn enters through the airhole in gold nib and travels upward in upper part of channel, replacing amount of ink used, thus insuring a constant, even flow of ink.

time.



Alcohol Lamp the gold nib. To insure this, heat the forepart of the feed by passing it over a small flame rolling the pen back and forth between the fingers. Heat very slowly to soften the feed. Do not hold The feed must lie flat and tight against in one spot too long, as this may burn

dip forefinger in cold water and rub it firmly back and forth on the nib Then dip the pen into cold water. The feed should now fit snugly prevent to cool the feed and warping.

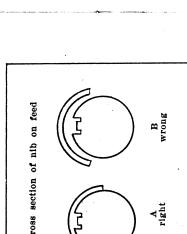


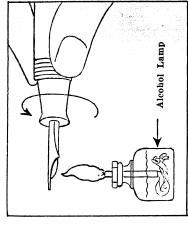
raise up and space prongs of nib To decrease flow bend down and close prongs of nib

Put a little shellac on the nipple of section. Spread mouth of sac with the sac spreader and slip the sac onto the nipple. Be careful not to get any shellac in the feed channel.

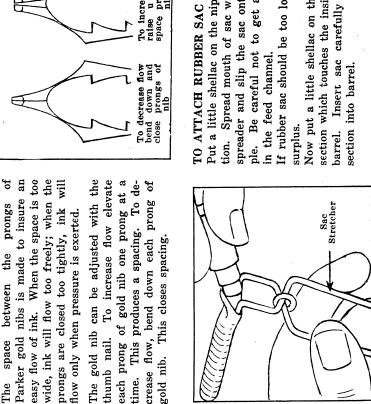
If rubber sac should be too long, cut off

Now put a little shellac on that part of section which touches the inside wall of Insert sac carefully and push





Rest back of gold nib on edge of table, against the gold nib.



ued. All Parker pens at present are The first two bars have been discontinfitted with the double bar for slip sec-

of this bar rests in the collar inside the barrel. The small plate of the pressure See illustration. Care must be taken that the front end bar must face the sac.

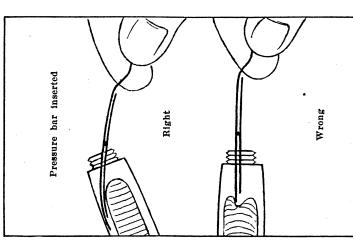
When inserting pressure bar, bend front end upwards toward the wall of the barrel, so that when you push the bar in, the ink sac will not be telescoped. See Illustration.

TO INSERT PRESSURE BAR

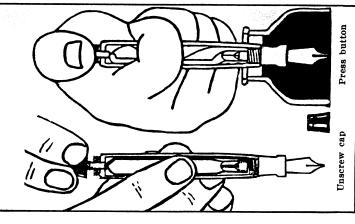
The pen to be repaired may have one of the following pressure bars: Thisis the bar used in the straight shape Double bar for screw section. pens; it rests against section.

Only a few pens with the triple bar have 3 pieces. B. Triple bar consisting of been shipped. C. Double bar for slip section. This is Inside the barrel is a metal ring or the bar used in the streamlined pens. "collar" against which this bar rests. See illustration,

oe filled.



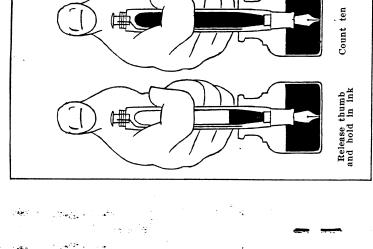
fountain pen ink. It is necessary that you count ten. The ink sac should then Unscrew the blind cap on the end of the merged in the ink. Press button with Release thumb from button instantly and let the nib stay in the ink while barrel, and insert pen in a bottle of good the nib and feed be completely subthumb to expel all air from ink sac. TO FILL PARKER PENS



Be sure to explain to the buyer of a Parker Pen that he must give it time button and withdraw the pen almost immediately after releasing pressure Some people press the filleron the button and expect the sac to be to fill. filled.

should remain immersed in ink at least ten seconds. After ten seconds have To fill the sac completely, the point elapsed withdraw the pen from the ink bottle and with a cloth wipe the gold nib clean. Screw blind cap on the pen; it is now ready for writing.

Although all pens are apparently identhan others because of minute variations in the dimensions of feed channel or the degree of elasticity of the rubber sac. Thus some pens may need as much as tical some may require more time to fill 15 seconds time to fill completely.

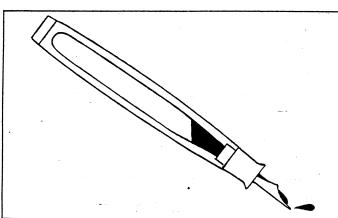


SERVICE MANUAL

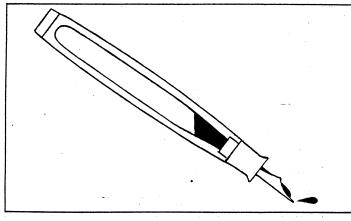
LEAKING

wall of the cap. When the user later unscrews the cap, he will get ink on his fingers and complain that his pen (1) If the cap of the pen is not screwed on securely when not in use, the ink may ooze out of the feed and soil the inner Leaking is a term used in two ways: "leaks". The purpose of the cap is to effect a hermatic sealing which makes the escape of ink impossible. To accomplish

this, the cap must be screwed on until a click is heard. The click is produced by the sleeve of the inner cap closing tightly over the section.



drops of ink may fall from the pen while When only one-eighth of the sac is filled with ink, the remaining seven-eighths is filled with air. Air has Nine-tenths of the complaints about (2) If the sac becomes almost empty, Such a condition is easily ex-The warmth of the fingers heats the pen and the air inside the sac; the air expands and forces out too much ink. The "leaking" can be traced to this situation. The remedy is simple—refill the pen a higher expansion co-efficient than ink. result of this process is a "leaky" pen. plained. in use.



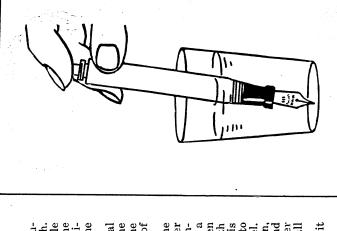
PROPER CARE OF PARKER FOUNTAIN PENS

should be treated as such. the pen from an ink bottle open for some time which contains sediment, for the dirt particles will clog the The fountain pen is a delicate instru-ment and should be treated as such. fine ink channel in the feed. which stoodhas Never fill from that

that even with use of the best ink some small particles of sediment will enter the ink sac and in time obstruct the flow of ink through the channel. In the course of time it is quite natural

tumbler with cold water, insert the pen just as for filling, fill the sac with water and expel it again. Repeat this flushing operation four or five times to It is, therefore, necessary to clean the fountain pen from time to time in order to keep it in good condition. This cleaning process is very simple. Fill a wash away all sediment in the channel. To insure thorough cleansing of the pen the pen with water and let it stand int down in a tumbler of water over night. This dissolves and removes al ink crusts. point

Never flush with hot water because it ruins the sac and expands the feed.



PARKER CLIP

and bend it to an acute angle. See illustration. When fitted again to the In time, the clip on any fountain pen will dual-Here the Parker Duofold has another advantage. When the clip has lost its grip, it is an easy matter to give it new life. Simply remove the clip cap, it will be as strong as when the or spring lose its strength en was new.

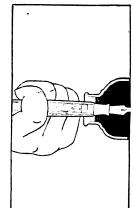
TO REMOVE STAINS ON BARREL

Moisten a piece of tissue paper and put some good tooth paste on it. Rub the soiled part and see how easily the stain s removed.

12

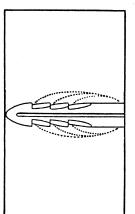
NONBREAKABLE

Parker pens are made of permanite which is practically unbreakable. Parker pens have been dropped from airplanes three thousand feet aloft and have landed on cement sidewalks without damage.



NO CUT IN BARREL

There are no slits disfiguring the pen in the side of the barrel. Ink cannot escape even if the sac should break. "No hole in the wall—no ink on hands or clothes." No side lever to catch on the clothes when removing from pocket.



GREATER INK CAPACITY

Parker Duofold's oversize ink capacity is 17.4% greater than the average of other pens, size for size. This gives you 60000 words non-stop writing, with one

FEATURES OF THE PARKER PEN

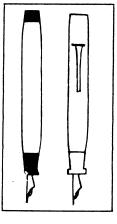
38 YEARS OF PARKER PENS

The Parker Pen Company was founded in 1892. Back of each Parker product is over thirty-eight years of personal experience in the manufacture of fountain pens by Mr. Geo. S. Parker, President of The Parker Pen Company. Parker Duofold pens are in the hands of twenty-six million satisfied users.



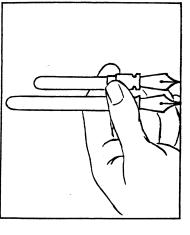
BUTTON FILLER

Parker filler button at top of barrel allows point to reach the bottom of deep ink bottles easily.



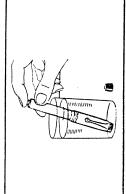
PARKER FEED

Parker's slanted, notched feed prevents "sweating." Feed drains ink back into barrel quickly.



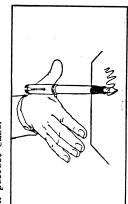
LEAKPROOF

Parker's duo-sleeve safety cap seals the pen hermetically and prevents any loss of ink, even if the pen is carried upside down. When the cap is screwed on the pen, the inner sleeve fits over the gold nib and makes a contact with the section, allowing no ink to escape, provided of course that the cap is screwed on very tightly.



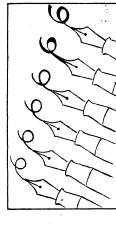
28% LIGHTER THAN RUBBER

Permanite has another advantage in being 28 per cent lighter than hard rubber, which was formerly used in the manufacture of fountain pens. The pen, therefore, feels featherlight in the hand. When writing it glides over the paper with perfect ease.



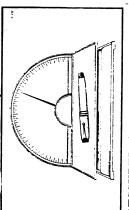
DUOFOLD POINTS

Parker's Heavy Gold nibs are tipped with Tasmanian iridium and are hand ground to a velvet smooth finish. Parker developed a unique plan to insure the perfection of each Parker Duofold nib. Parker pays a bonus to each pen grinder, after all his gold nibs have passed 11 inspections. If a gold nib fails to pass any of the 11 inspections, it is rejected and the pengrinder not only forfeits his bonus but pays a penalty.



Sealed

You can demonstrate the leakproof, hermetic sealing in this manner: empty a Parker pen, screw cap on tight, submerge in a tumbler filled with water as shown in the illustration. Press the filler button. Not a single air bubble will appear, proving that the Parker Pen is leakproof.



PRESSURELESS TOUCH

One of the greatest achievements in the fountain pen industry is Parker pres-The physical phenomena of capillary attraction and gravity have oeen made use of in the construction of the Parker Pen and account for the fact that a tiny globule of ink is fed to the point of the nib and actually touches the famous exertion, just an instant before the The pen can be drawn over Parker's thus accomplishing Parker's pressureless touch in writing. the slightest sureless touch. without paper paper does.



A POINT FOR EVERY HAND

Parker makes many different styles of points—to suit the taste and characteristics of any individual handwriting. Either rigid or flexible points in various gradations of fineness are obtainable.

SERVICE MANUAL

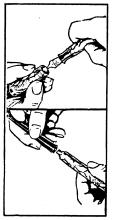
2 PENS IN 1

Every owner of a Parker Duofold pen owns half of a Desk Set. In fact, every-one who buys a Parker Pen automati-cally buys half a desk set. To own a complete desk set, he need buy only a base; it is unnecessary to purchase a special desk pen.



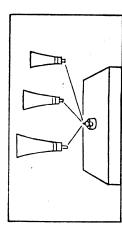
CONVERTIBILITY

All Parker Pens are convertible into pocket or desk pens.



TAPER INCLUDED

The taper to convert pocket pen into desk pen is included with every Parker base.



SYMMETRICAL DESIGN

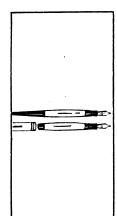
metry-and pencils to match. Parker because the clip is fastened on top-not pens and pencils fit deeply in pocket, New streamline shape in beautiful symhalf-way down as on other makes.

Barrel

Point

Knock-out Pir

Clutch



DOUBLE DESK SETS

Parker double desk sets can be supplied either with two pens or with one pen and one pencil.



POCKET PEN-DESK PEN

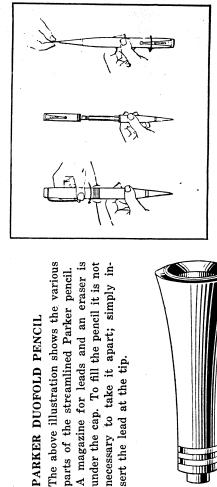
Swivel Screw

Convertible in 10 seconds. To change pocket pen to desk pen simply substitute taper for cap.



NTERCHANGEABLE

interchangeable; so any Parker base can be supplied with any Parker pen. pens The sockets in Parker desk sets are Parker sockets are obtainable for and pencils.



under the cap. To fill the pencil it is not

parts of the streamlined Parker pencil.

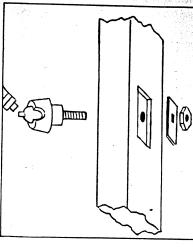
PARKER DUOFOLD PENCIL

necessary to take it apart; simply in-

sert the lead at the tip.

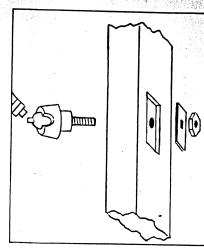
PARKER DESK SET SOCKET

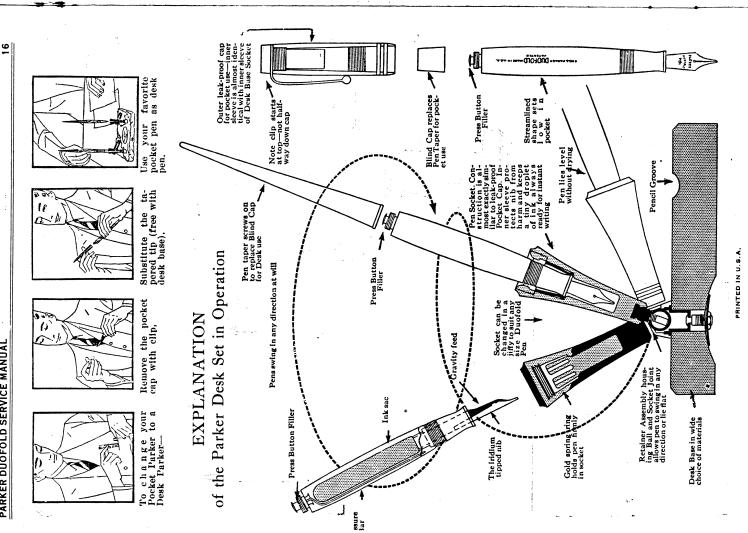
can be supplied in three sizes: Senior, The complete Parker socket consists of Retainer and Bowl (Humidor); the Bowl Junior, and Lady-for either pen or pencil. All bowls are interchangeable.



TO ATTACH RETAINER TO BASE

through hole in base; slip cross bar into the hole on the underside of base over Put lower end with swivel screw the swivel screw and screw tight with nut.





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